date.

$$\#(4-(a)) y = e^{2x} = e^{x} (u = 2x)$$

#
$$(u)$$
 $y = e^{2x} = e^{u}$ $(u = 2x)$

$$y' = \frac{dy}{dx} = \frac{d}{du} (e^{u}) \times \frac{du}{dx}$$

$$\frac{du}{dx} = \frac{du}{dx} (e^{u}) \times \frac{du}{dx}$$

$$\frac{1}{\sqrt{2}} = (x \ln x) - (x)$$

$$= |m\alpha + \alpha \cdot \frac{1}{\alpha} - | = |m\alpha|$$

$$\frac{dy}{dx} = (e^{x}) \ln x + e^{x} (\ln x)$$

$$= e^{\alpha} | m\alpha + e^{\alpha} + \frac{1}{\alpha}$$

$$= e^{\alpha} (| m\alpha + \frac{1}{\alpha})$$

$$= \frac{|m\alpha - \alpha \times \alpha|}{(|m\alpha|)^2}$$